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TECH CENTER 1600/2900

1645#6  
PATENT APPLICATION

Attorney Docket No.: 11009/35975C

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Kinstler et al.	)	I hereby certify that this paper is being
	)	deposited with the United States Postal
Serial No: 09/817,725	)	Service as First Class Mail, postage prepaid
	)	in an envelope addressed to: Commissioner
Filed: March 26, 2001	)	for Patents, Washington, D.C. 20231, on
	)	this date:
For: N-Terminally Chemically Modified	)	
Protein Compositions and Methods	)	May 22, 2001
	)	
Group Art Unit: 1645	)	
	)	Mark H. Hopkins, Ph.D.
Examiner: B. Nelson	)	Registration No. 44,775
	)	Agent for Applicants

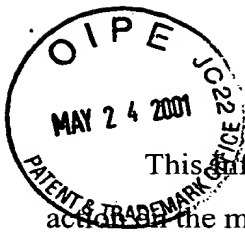
**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §1.97 INCLUDING REPORT FORM PTO-1449**

Commissioner for Patents  
Washington, DC 20231

Sir:

Applicants request that the documents listed on the attached Form PTO-1449 be made of official record in the above-identified application, be considered by the Examiner and be recorded on the face of any patent that issues from the above-identified application. Copies of each of the listed documents, A1-A8, B1-B18 and C1-C17 were submitted previously in the parent application U.S. Serial No. 09/408,113 filed Sep. 29, 1999, and therefore, in accordance with 37 C.F.R. §1.98(d), are not being submitted with this Information Disclosure Statement.


This Information Disclosure Statement is not intended to be an admission that a search has been made, that other relevant art does not exist, or that any of the information enclosed herein constitutes prior art under 35 U.S.C. §§102 or 103.



This Information Disclosure Statement is submitted before receipt of a first Office action on the merits, and consequently should be considered by the Patent Office without payment of a fee. See 37 C.F.R. §1.97(b). However, please charge any necessary fees due in connection with this Information Disclosure Statement to Deposit Account No. 13-2855. A copy of this paper is enclosed herewith.

Respectfully submitted,

MARSHALL, O'TOOLE, GERSTEIN,  
MURRAY & BORUN

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PATENT &amp; TRADEMARK OFFICE

U.S. Department of Commerce  
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Applicant

Kinstler, Olaf B. *et al.*

Filing Date

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**U.S. PATENT DOCUMENTS**

*Examiner Initials		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
	A1	4,002,531	01/11/77	Royer	195	68	TECH CENT. 1000/2900 MAY 29 2001
	A2	4,179,337	12/18/79	Davis <i>et al.</i>	435	181	
	A3	4,695,623	09/22/87	Stabinsky	530	351	
	A4	4,810,643	03/07/89	Souza	435	68	
	A5	4,897,471	01/30/90	Stabinsky	536	27	
	A6	4,904,584	02/27/90	Shaw	435	69.4	
	A7	5,252,714	10/12/93	Harris <i>et al.</i>	530	391.9	
	A8	5,349,052	09/20/94	Delgado <i>et al.</i>	530	351	

**FOREIGN PATENT DOCUMENTS**

*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
	B1	AU-A-10948/92	08/26/92	AU				
	B2	EP 0 154 316	09/11/85	EP				
	B3	EP 0 098 110	09/02/86	EP				
	B4	EP 0 243 153	10/28/87	EP				
	B5	EP 0 272 703	06/29/88	EP				
	B6	EP 0 335 423	10/04/89	EP				
	B7	EP 0 401 384	12/12/90	EP				

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*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
	B9	EP 0 442 724	08/21/91	EP				
	B9	EP 0 456 200 A1	11/13/91	EP				
	B10	EP 0 459 630	12/04/91	EP				
	B11	EP 0 473 268	03/04/92	EP				
	B12	EP 0 539 167	04/28/93	EP				
	B13	WO 89/10932	12/20/89	WIPO				
	B14	WO 89/05824	02/27/90	WIPO				
	B15	WO 90/04606	05/03/90	WIPO				
	B16	WO 91/05798	05/02/91	WIPO				
	B17	WO 92/06707	04/30/92	WIPO				
	B18	WO 94/00913	12/24/93	WIPO				

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TECH CENTER 1600/2900**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, etc.)

C1	Abuchowski <i>et al.</i> , in <i>Enzymes as Drugs</i> , J.S. Holcerberg and J. Roberts (Eds.), pp. 367-383 (1981)
C2	Balmer, DICP, <i>The Annals of Pharmacotherapy</i> , 24:761-767 (1990).
C3	Boehringer Mannheim, <i>Biochemica Katalog</i> , pp. 362 (1994).
C4	Chamow <i>et al.</i> , "Modification of CD4 immunoadhesin with monomethoxypoly (ethylene glycol) aldehyde via reductive alkylation," <i>Bioconjugate Chem.</i> , 5:133-140 (1994).

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**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, etc.)

C5	Delgado <i>et al.</i> , "Coupling of PEG to Protein by Activation with Treysl Chloride, Applications in Immunoaffinity Cell Preparation," in Fisher <i>et al.</i> , Eds., <i>Separations Using Aqueous Phase Systems, Applications in Cell Biology and Biotechnology</i> , Plenum Press, New York, NY pp. 211-213 (1989).
C6	Francis <i>et al.</i> , in <i>Stability of Protein Pharmaceuticals: In Vivo Pathways of Degradation and Strategies for Protein Stabilization</i> , Ahern, T. and Manning, M.C. (Eds.), Plenum Press, New York, N.Y. (1991).
C7	Francis, "Protein Modification and Fusion Proteins", <i>Focus on Growth Factors</i> , 3:4-10 (May 1992).
C8	Gaertner <i>et al.</i> , "Site specific attachment of functionalized poly(ethylene glycol) to the amin terminus of proteins," <i>Bioconjugate Chem.</i> , 7(1):38-44 (1996).
C9	Hill <i>et al.</i> , "The structure of granulocyte-colony-stimulating factor and its relationship to other growth factors," <i>Proc. Natl. Acad. Sci., USA</i> , 90(11):5167-5171 (June 1993).
C10	Klein <i>et al.</i> , "Isolation and structural characterization of Three Isoforms of Recombinant Consensus Alpha Interferon," <i>Arc Biochem. Biophys.</i> , 276:531-537 (1990).
C11	Klein <i>et al.</i> , "Structural Characterization of Recombinant Consensus Interferon-Alpha," <i>J. Chromatog.</i> , 454:205-215 (1988).
C12	McGoff <i>et al.</i> , "Analysis of Polyethylene Glycol Modified Superoxide Dismutase by Chromatographic, Electrophoretic, Light Scattering, Chemical and Enzymatic Methods," <i>Chem. Pharm. Bull.</i> , 36(8):3079-3091 (1988).
C13	<i>Remington's Pharmaceutical Sciences</i> , 18th Edition, Mack Publishing Co., Easton, PA 18042, pp. 1435-1712 (1990).
C14	Rose <i>et al.</i> , "Preparation of Well-Defined Protein Conjugates Using Enzyme-Assisted Reverse Proteolysis," <i>Bioconjugate Chemistry</i> , 2(3):154-159 (1991).
C15	Sada <i>et al.</i> , "Resistance to Proteolysis of Antibody Ligands Modified With Polyethylene Glycol," <i>J. Fermentation and Bioengineering</i> 71 (2):137-139 (1991).
C16	Stryer, in <i>Biochemistry</i> , 2nd Edition, Table 4-1, pp. 80 (1981).
C17	Wetzel <i>et al.</i> , "A General Method for Highly Selective Cross-Linking of Unprotected Polypeptides Via pH-Controlled Modification of N-Terminal Alpha-Amino Groups," <i>Bioconjugates Chem.</i> , 1(2):114-122 (1990).

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C17

Wetzel *et al.*, "A General Method for Highly Selective Cross-Linking of Unprotected Polypeptides Via pH-Controlled Modification of N-Terminal Alpha-Amino Groups," *Bioconjugates Chem.*, 1(2):114-122 (1990).

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